



PATENT
Atty. Dkt. WEAT/0527.P1

IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
William Banning Vail, III

Serial No.: 10/729,510

Confirmation No.: 1981

Filed: December 5, 2003

For: METHODS AND APPARATUS
FOR CEMENTING DRILL
STRINGS IN PLACE FOR ONE
PASS DRILLING AND
COMPLETION OF OIL AND
GAS WELLS

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Group Art Unit: 3672
Examiner: Unknown
Customer No.: 36735

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made

or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/WEAT/0527.P1.

Respectfully submitted,

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PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

JAN 14 2005

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 12

Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	William Banning Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
Customer No.	36735

Submission Date

January 12, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
A1	US-2,167,338		07-25-1939	Murcell	
A2	US-2,228,503		01-14-1941	Boyd, et al.	
A3	US-2,370,832		03-06-1945	Baker	
A4	US-2,379,800		07-03-1945	Hare	
A5	US-2,414,719		01-21-1947	Cloud	
A6	US-2,720,267		10-11-1955	Brown	
A7	US-2,741,907		06-06-1997	Genender, et al.	
A8	US-3,006,415		10-31-1961	Burns, et al.	
A9	US-3,041,901		07-03-1962	Knights	
A10	US-3,054,100		09-11-1962	Jones	
A11	US-3,090,031		05-14-1963	Lord	
A12	US-3,111,179		11-19-1963	Albers, et al.	
A13	US-3,117,636		01-24-1964	Wilcox, et al.	
A14	US-3,124,023		3-10-1964	Marquis, et al.	
A15	US-3,131,769		05-05-1964	Rochemont	
A16	US-3,193,116		07-06-1965	Kenneday, et al.	
A17	US-3,419,079		12-31-1968	Current	
A18	US-3,548,936		12-22-1970	Kilgore, et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
B1	CA 2 335 192		11-30-2001	Kozak		
B2	DE 3 523 221		02-01-1987	Svetozar		
B3	DE 3 918 132		12-14-1989	Eriksson		
B4	EP 0 474 481		03-11-1992	Moody		
B5	EP 0 087 373		08-31-1983	Plaquin		

Examiner

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Sheet 2

of 12

Application Number 10/729,510

Filing Date December 5, 2003

First Named Inventor William Banning Vail, III

Group Art Unit 3672

Examiner Name Unknown

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		Number-Kind Code ² (if known)			
A19	US-3,552,507		01-05-1971	Brown	
A20	US-3,552,848		01-05-1971	Van Wagner	
A21	US-3,566,505		03-02-1971	Martin	
A22	US-3,602,302		08-31-1971	Kluth	
A23	US-3,606,664		09-21-1971	Weiner	
A24	US-3,635,105		01-18-1972	Dickmann, et al.	
A25	US-3,680,412		08-01-1972	Mayer, et al.	
A26	US-3,691,825		09-19-1972	Dyer	
A27	US-3,696,332		10-03-1972	Dickson, Jr., et al.	
A28	US-3,776,320		12-04-1973	Brown	
A29	US-3,776,991		12-04-1973	Marcus	
A30	US-3,848,684		11-19-1974	West	
A31	US-3,857,450		12-31-1974	Guier	
A32	US-3,913,687		10-21-1975	Gyongyosi, et al.	
A33	US-4,054,332		10-18-1977	Bryan, Jr.	
A34	US-4,095,865		06-20-1978	Denison, et al.	
A35	US-4,127,927		12-05-1978	Hauk, et al.	
A36	US-4,194,383		03-25-1980	Huzyak	

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		Number-Kind Code ² (if known)				
B6	EP 0 162 000		11-21-1985	Hamilton		
B7	EP 0 171 144		02-12-1986	Stringfellow, et al.		
B8	EP 0 285 386		10-05-1988	Haney		
B9	EP 0 426 123		05-08-1991	Reis, et al.		
B10	EP 0 525 247		02-03-1993	Willis		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3

of 12

Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	William Banning Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
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		Number-Kind Code ² (if known)			
A37	US-4,227,197		10-07-1980	Nimmo, et al.	
A38	US-4,241,878		12-30-1980	Underwood	
A39	US-4,277,197		07-07-1981	Bingham	
A40	US-4,280,380		07-28-1981	Eshghy	
A41	US-4,311,195		01-19-1982	Mullins, II	
A42	US-4,392,534		07-12-1983	Miida	
A43	US-4,407,378		10-04-1983	Thomas	
A44	US-4,427,063		01-24-1984	Skinner	
A45	US-4,437,363		03-20-1984	Haynes	
A46	US-4,445,734		05-01-1984	Cunningham	
A47	US-4,449,596		05-22-1984	Boyadjieff	
A48	US-4,494,424		01-22-1985	Bates	
A49	US-4,529,045		07-16-1985	Boyadjieff, et al.	
A50	US-4,570,706		02-18-1986	Pugnet	
A51	US-4,592,125		06-03-1986	Skene	
A52	US-4,593,773		06-10-1986	Skeie	
A53	US-4,605,268		08-12-1986	Meador	
A54	US-4,625,796		12-02-1986	Boyadjieff	

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		Number-Kind Code ² (if known)				
B11	EP 0 589 823		03-03-1994	Busink, et al.		
B12	EP 0 659 975		06-28-1995	Nagaoka, et al.		
B13	EP 0 790 386		08-20-1997	Newton, et al.		
B14	EP 0 881 354		04-24-1998	Vercaemmen, et al.		
B15	EP 0 962 384		12-08-1999	Poldervaart		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4

of 12

Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	William Banning Vail, III
Group Art Unit	3672
Examiner Name	Unknown
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		Number-Kind Code ² (if known)			
A55	US-4,646,827		03-03-1987	Cobb	
A56	US-4,649,777		03-17-1987	Buck	
A57	US-4,667,752		05-26-1987	Berry, et al.	
A58	US-4,676,312		06-30-1987	Mosing, et al.	
A59	US-4,683,962		08-04-1987	True	
A60	US-4,691,587		09-08-1987	Farrand, et al.	
A61	US-4,709,599		12-01-1987	Buck	
A62	US-4,709,766		12-01-1987	Boadjieff	
A63	US-4,738,145		04-19-1988	Vincent, et al.	
A64	US-4,742,876		05-10-1988	Barthelemy, et al.	
A65	US-4,759,239		07-26-1988	Hamilton, et al.	
A66	US-4,765,401		08-23-1988	Boadjieff	
A67	US-4,773,689		09-27-1988	Wolters	
A68	US-4,775,009		10-04-1988	Wittrisch, et al.	
A69	US-4,781,359		11-01-1988	Matus	
A70	US-4,788,544		11-29-1988	Howard	
A71	US-4,791,997		12-20-1988	Krasnov	
A72	US-4,793,422		12-27-1988	Krasnov	

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		Number-Kind Code ² (if known)				
B16	EP 1 256 691		11-13-2002	Hawkins, et al.		
B17	FR 2 841 293		12-26-2003	Bouygues Offshore		
B18	GB 2 115 940		09-14-1983	Plaquin		
B19	GB 2 224 481		09-05-1990	Voeten		
B20	GB 2 275 486		04-15-1993	Eiane, et al.		

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First Named Inventor

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A73	US-4,800,968		01-31-1989	Shaw, et al.	
A74	US-4,806,928		02-21-1989	Veneruso	
A75	US-4,813,493		03-21-1989	Shaw, et al.	
A76	US-4,836,064		06-06-1989	Slator	
A77	US-4,867,236		09-19-1989	Haney, et al.	
A78	US-4,878,546		11-07-1989	Shaw, et al..	
A79	US-4,901,069		02-13-1990	Veneruso	
A80	US-4,936,382		06-26-1990	Thomas	
A81	US-4,962,579		10-16-1990	Moyer, et al.	
A82	US-5,009,265		04-23-1991	Bailey, et al.	
A83	US-5,036,927		08-06-1991	Willis	
A84	US-5,141,063		08-25-1992	Quesenbury	
A85	US-5,176,518		01-05-1993	Hordijk, et al.	
A86	US-5,191,932		03-09-1993	Seefried, et al.	
A87	US-5,224,540		07-06-1993	Streich, et al.	
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A89	US-5,245,265		09-14-1993	Clay	
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		Number-Kind Code ² (if known)				
B21	GB 2 294 715		08-05-1996	Tibbitts		
B22	GB 2 349 401		11-01-2000	Roberts, et al.		
B23	GB 2 352 747		07-02-2001	Davis, et al.		
B24	GB 2 357 530		06-27-2001	Schulze-Beckinghausen		
B25	GB 2 372 765		09-04-2002	Head		

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A91	US-5,271,468		12-21-1993	Streich, et al.	
A92	US-5,305,839		04-26-1994	Kalsi, et al.	
A93	US-5,332,043		07-26-1994	Ferguson	
A94	US-5,351,767		10-04-1994	Stogner, et al.	
A95	US-5,388,651		02-14-1995	Berry	
A96	US-5,394,823		03-07-1995	Lenze	
A97	US-5,433,279		07-18-1995	Tassari, et al.	
A98	US-5,494,122		02-27-1996	Larsen, et al.	
A99	US-5,501,286		03-26-1996	Berry	
A100	US-5,503,234		04-02-1996	Clanton	
A111	US-5,540,279		07-30-1996	Branch, et al.	
A112	US-5,542,472		08-06-1996	Pringle, et al.	
A113	US-5,542,473		08-06-1996	Pringle, et al.	
A114	US-5,553,672		09-10-1996	Smith, Jr., et al.	
A115	US-5,577,566		11-26-1996	Albright, et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
B26	GB 709 365		05-19-1954	Standard Oil Development		
B27	GB 716 761		10-13-1954	Standard Oil Development		
B28	GB 881 358		11-01-1961	Kammerer, et al.		
B29	GB 2 350 137		11-22-2000	Baugh, et al.		
B30	RU 2 079 633		05-20-1997	Abdrakhmanov		

Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 7

of 12

Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	William Banning Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
Customer No.	36735

Submission Date

January 12, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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A120	US-5,813,456		09-29-1998	Milner, et al.	
A121	US-5,836,395		11-17-1998	Budde	
A122	US-5,839,515		11-24-1998	Yuan, et al.	
A123	US-5,850,877		12-22-1998	Albright, et al.	
A124	US-5,907,664		05-25-1999	Wang, et al.	
A125	US-5,909,768		06-08-1999	Castille, et al.	
A126	US-5,971,086		10-26-1999	Bee, et al.	
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A128	US-5,988,273		11-23-1999	Monjure, et al.	
A129	US-6,056,060		05-02-2000	Abrahamsen, et al.	
A130	US-6,070,500		06-06-2000	Dlask, et al.	
A131	US-6,079,498		06-27-2000	Lima, et al.	
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A133	US-6,142,545		11-07-2000	Penman, et al.	
A134	US-6,161,617		12-19-2000	Gjedebo	
A135	US-6,173,777		01-16-2001	Mullins	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
B31	WO 00/39429		07-06-2000	Pietras		
B32	WO 00/39430		07-06-2000	Pietras		
B33	WO 00/46484		08-10-2000	Van Buren, et al.		
B34	WO 00/66879		11-09-2000	Hawkins, et al.		
B35	WO 02/081863		10-17-2002	Simpson, et al.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8

of 12

Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	William Banning Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
Customer No.	36735

Submission Date

January 12, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
A137	US-6,223,823		05-01-2001	Head	
A138	US-6,227,587		05-08-2001	Terral	
A139	US-6,275,938		08-14-2001	Bond, et al.	
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A141	US-6,305,469		10-23-2001	Coenen, et al.	
A142	US-6,309,002		10-30-2001	Bouligny	
A143	US-6,349,764		02-26-2002	Adams, et al.	
A144	US-6,360,633		03-26-2002	Pietras	
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A147	US-6,392,317		05-21-2002	Hall, et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
B36	WO 02/44601		06-06-2002	Appleford, et al.		
B37	WO 03/087525		10-23-2003	Vincent, et al.		
B38	WO 93/07358		04-15-1993	Eiane, et al.		
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Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 9

of 12

Application Number 10/729,510

Filing Date December 5, 2003

First Named Inventor William Banning Vail, III

Group Art Unit 3672

Examiner Name Unknown

Attorney Docket Number WEAT/0527.P1

Customer No. 36735

Submission Date January 12, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
A155	US-6,698,595		03-02-2004	Norell, et al.	
A156	US-6,725,938		04-27-2004	Pietras	
A157	US-6,742,596		06-01-2004	Haugen	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
B41	WO 98/11322		03-19-1998	Gjedbo		
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B43	WO 99/35368		07-15-1999	Lohbeck, et al.		
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B45	WO 99/58810		11-18-1999	Abrahamsen, et al.		

Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	William Banning Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
Customer No.	36735

Sheet 10

of 12

Submission Date

January 12, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
A173	US-2004/0108142		06-10-2004	Vail, III	
A174	US-2004/0112646		06-17-2004	Vail	
A175	US-2004/0118613		06-24-2004	Vail	
A176	US-2004/0123984		07-01-2004	Vail	
A177	US-2004/0124015		07-01-2004	Vaile, et al.	
A178	US-2004/0129456		07-08-2004	Vail	
A179	US-2004/0140128		07-22-2004	Vail	
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A181	US-2004/0216925		11-04-2004	Metcalfe, et al.	
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A184	US-				
A185	US-				
A186	US-				
A187	US-				
A188	US-				
A189	US-				
A190	US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
B46	FR 2 741907		06-06-1997	Leighton		
B47						
B48						
B49						
B50						

Examiner

Date Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 11

of 12

Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	William Banning Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
Customer No.	36735

Submission Date

January 12, 2005

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
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		YAKOV A. GELFGAT, MIKHAIL Y. GELFGAT and YURI S. LOPATIN, Retractable Drill Bit Technology – Drilling Without Pulling Out Drillpipe, Advanced Drilling Solutions Lessons From the FSU; June 2003; Vol. 2, pps. 351-464	
		TOMMY WARREN, SPE, BRUCE HOUTCHENS, SPE, GARRET MADELL, SPE, Directional Drilling With Casing, SPE/IADC 79914, Tesco Corporation, SPE/IADC Drilling Conference 2003	
		LaFleur Petroleum Services, Inc., "Autoseal Circulating Head," Engineering Manufacturing, 1992, 11 Pages	
		Valves Wellhead Equipment Safety Systems, W-K-M Division, ACF Industries, Catalog 80, 1980, 5 Pages	
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		The Original Portable Top Drive Drilling System, TESCO Drilling Technology, 1997	
		MIKE KILLALEA, Portable Top Drives: What's Driving The Market?, IADC, Drilling Contractor, September 1994, 4 Pages	
		500 or 650 ECIS Top Drive, Advanced Permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages	

Examiner

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 12

of 12

Application Number	10/729,510
Filing Date	December 5, 2003
First Named Inventor	William Banning Vail, III
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0527.P1
Customer No.	36735

Submission Date

January 12, 2005

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		500 or 650 HCIS Top Drive, Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages	
		Product Information (Sections 1-10) CANRIG Drilling Technology, Ltd., September 18, 1996	

Examiner

Date Considered

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